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WOODWORTH, Brian, R et al.; Dept. (74) Agents: 377/AP6D-2, 100 Abbott Park Road, Abbott Park, IL

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ABBOTT LABORATORIES [US/US]; (71) Applicant: Dept. 377/AP6D-2, 100 Abbott Park Road, Abbott Park,

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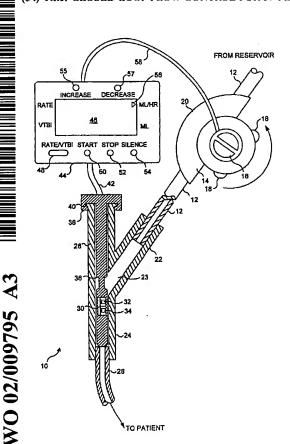
(72) Inventors: CHO, Steven, T; 379 Regency Circle #305,

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Salinas, CA 93906 (US). CLARK, Gene, E; 3714 Red Oak Way, Redwood, CA 94061 (US).

(54) Title: CLOSED-LOOP FLOW CONTROL FOR IV FLUID DELIVERY



(57) Abstract: In a closed-loop process, a controller uses a flow sensor to monitor the flow of a medicinal fluid being infused into a patient, to achieve a desired rate of flow. A relatively inexpensive peristaltic pump or electronically controlled valve can be used to vary the flow of the medicinal fluid through a fluid line. A Y site within the fluid line includes an integral flow sensor having an orifice. The flow sensor includes proximal and distal pressure sensors disposed on opposite sides of the orifice to monitor the distal and proximal pressure, producing a signal indicative of the rate of flow of the medicinal fluid through the fluid line. A signal produced by the controller is input to a motor driving the pump or to the valve to vary the rate of flow as required to achieve the desired infusion rate of the medicinal fluid.

# INTERNATIONAL SEARCH REPORT

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A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A61M5/172 A61M5/168			
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Electronic d	ala base consulted during the international search (name of data baterna l	se and, where practical, search term	s used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
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X Furti	her documents are listed in the continuation of box C.	X Patent family members are	e listed in annex.	
*A' docume consider the filling of the citation of the course which citation the citation other in the citation of the citatio	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another nor other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed actual completion of the international search	*T* tater document published after to repriority date and not in conflicted to understand the princip invention  "X* document of particular relevance cannot be considered novel or involve an inventive step when  "Y* document of particular relevance cannot be considered to involve document is combined with on ments, such combination being in the art.  "&* document member of the same  Date of mailing of the internation	ict with the application but le or theory underlying the e; the claimed invention cannot be considered to the document is taken alone e; the claimed invention e an inventive step when the e or more other such docugo	
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